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wher masher of the series. The ansatz of J₂E elizables subarguppersains framed as a hypothysi is anglighbe and it can be readily asymptotic from the memoderication by varues distillations.

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The ploaning by the properties of Passaccorbiling/ploaning by the properties of Passacsoff/Feeddems of that used by Asurk⁴ and by Maury, Augle, and Enter,⁴⁹ Experimental entergy dreaming expecter between collineations that is noise thing processive expecter to that of the above subject.

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The validity of the structure analyses was proven by substitution beamin for board. In the resultander, a sense could give only the sequent represented by (4), a start setting point prove that the probaformed free beauin was instituted, with their dynamic dyna beauty.

A product solling of 200⁹ to 112 °C, see sptained when chemican and social hypothelie was need as the refereing agent. Amongship for higherings infidences a diversion represented by the followings

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The achieve of preparables and the physical constants of the ampounds discussed will be found in the Asperimental part of this discontation. NUCCESSION OF A DESCRIPTION OF A DESCRIP

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NEODE JOLITICS OF PERAMETRY ACRO PERSAMETE,⁴⁸ Tode was a fifth molar solution consisting of locating of persaman and philadase per 160 ee, at solution. The primarius and philadase crystals had been dried over wight at 100° Co.

CHYDN OF 91 LIN.⁴⁵ FIRty en, ef kan stent wilding of primarium midd pickaties and Belli en, ef C.100 marin hydrowilding and ever thinks is Bryde en. The Ji of Maks huffer was determined by an electrometric manarreast. The reading of the colorient action electron at 20⁴ o, was Quitt's alliebly this surveyand is a of cf LN.

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The Remoteschemiclosyphysical and forther dried with analytical oxids and analyted. The analyte wave weight out is shall, thort-notice separate with a voices of short 1 or. These separate very filled by means of a hypothesis optical.

Structural Persyls College No. Co. 144-128 107-105-54-0 I.---Theoretical Risks Percentage Xiald Percentage of Mikrogen, Towary

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After ombing, the shite granics presipliate was filtered aff and air drive,

The product is soluble in discuss, suggings thirting and thisparyam, if was deted to a vacuum desigtoist for three days before an analysis was made.

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substance sounds	Vistightshile
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The solution was made alkalize by the addition of 80 ms, of 805 online hydroxide and ion product was alkanded will tibe. The like otherwij origing was alkanded will privation exchants, filtered, and forther derivated. These respectives of the abbre, after drings,

it sus found that should bell of the product had been antracted before the addition of the primation embrants. The product was rearry distilled, defat with Priority, and redistilled. The samples for adalysis more wouldn't it is marches.

Stroptural Fermile CH_+CH_+CH_+D+D+B Resident Fronts Bolemlar Wight 277.341 Solling Print 220,47-223,27 2, at 5,75 m. Incorolical Links Sobual Tield 10.04 Personi are liald Percessings of Silengen, Theory 20,55 Percentary of Sildrary, Frind Selubility in Valer Asiable. Andreal and Addread delution.



To gram at physicality contains one then ived is in eq. of a MM would be at which surfaces, Thirdows prome of thirdballereventuals can active, the ansated of the Ziakk neural and aglicules, this corporate were formed in the allebra where the final had show one adjub to the ferber.

The errotain wave partition, drive in a varues desidentian in the presence of parallin for 6 days and analyzed,

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The white estrate spraces to be minilar, so they very mashined and vesses distillation was attempted, diver the where had evaporated, a mile arystalline mass remained in has diskilling finds, while arystalline beams a viscons likelé mon changing.

Tolo Mayod was distilled of sharphorid pressease from a side-same diskilling flack. To brilling plate ranged Jrus 100⁶ 16 50¹⁰ C j. D bergues a anglo-shift spon pocking, and was minkle in all momen argunic solvanies.

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A splarpoint andmann work on in and during the resum distillation of the product even methods and the second splare and the second second splare and the splare of the second product and the second splare independent of the second splare is to be a significant of the second splares independent is to be a significant of the second splares independent promotion.

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Thirty grass of physeshes heathprote was discolved in 19 so, of assantivities hybrichosts sold, for browned on, of 50% should assisting 16 deeps of indicator was added.

The saving of or of the infinite was brought bank with a action actions action. The sectors action was determined by a copurism with a submitte meniated to see, or before of pH N-PA 10 on, of alamini, and 2 dress of indicator.

The estimates was bested to a temptodage bebeen 50° and 50° Gg and bi as, at anythitecast-mode was alsolv abled with the relaxyouth additions of sation excludes 40 additional wave required for the reading.

The mixture was extracted with allow ofter being note alleline with codim hydroxides. The substance was Lowe addressed with andpirms prisonium marbanak and the attraction of the substance of the substance of the base ves note Remonstration analyzipervalue in the established one break than in the first,

The first sample we pland is a resum thetillation appends and the sile both we buyb at 110° 4. Init with expirals over as larger hypothic is the sum means, after the endemy had new cloud, the the means of the size of the size of the size of the like of the size of the size of the size of the the present of the speed existing it is distillation use embedge, respective, and sum of the distillation use

This guidesis of N-mesonih-mergolyteration van abtemptel in spinore solution. The explositors were used agained to is explored numbers with water at 20^{4} 0, and may aligning missible with vetter at 10^{4} 0. The meaning preceded on alrealy that an appreciable smaller of the measurement work on the includes,

(7) N-second-anoppiperaaiaa OTTOTATA POPULA ولاوتلهوتكورنا Selemier Talabi 200.17 343"-345" C. +1 5 mm. 1.2 6. Percentage Tield. 12 Personhage of \$51mgeo, Theory Personage of Strengto, Front 14.38 Selebildly is Aleebal felshilly is liker



Three of algo-integrans of homoscope homogeneous and the second childs of anism screents of ga denotes the list of each of a constraint gamma of a second child of a second constraint of the second child of a second resulting allow or any articles for a longer, starts they allow one strength which we the second gamma of the second results of the second second gamma of the second results of the second second gamma of the second second second second second gamma of the second second second second second second gamma of the second s

(i) S-m-hutrl, N'-sthridterson Streetwest Permit

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Section Sec. 224.282 Builder Prink 145"-145" C. at 3 m. Inverstical Lield 22.4 ** datural Titald Persenters of Sikrapen, Decory 12,00

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During this doublestion the styletic turned from a mits to a pallerish brown essor. The relating bothle and sample were related, should be poured into a KRabchil flamb, the biblic priority resentproved, and related

(9) H-mone-m-butylgipermains dispirenticular. Structure) Persona Charling aller line Impirical Permits Calles Rolls 210,000 545"+544" C. (4++) Percentage of Miloogan, Toopry 15,05 Percent are of Hitpeans, Forming 10, 90 Putural or absolute alcohol Joinbillits in fater ALLEDRAY DOINGOD Solubility in Shiny Inerithia

laves gress of Gol ass throughly mixed shift light g, ef homosubohylgipromike Hipdreshikotis, because of the Aggreencyde acture of the piperaston derivables, it ans difficult to prevent a loss of the minimum by relevence to the antisiance used in its handling.

The scale additions was distilled in verse. The distillate was again distilled, drived, redistilled, and scaleped.

ClarClarClarks ClarCla Surginal Permis Solling Feigh Tufots" C, at 15 mm. Asteal Mald 4.5 64 . Pareenings of Shirogan, Theory 15,80 Personan of Strongs, Frind. Solahility is halor delubtitier in Shiaw

(20) E-mon-mobility/plp/caking.



Effect prov of homosurfailing Diperative conjugation and in a constant of the second second second control between the second second second second is if one of entry. The address was referred over algeb, effects which is the bioreastic second second bioretory, objects, and detailed, the predest was because took by mass of hospitons walls surfacely, second multiple, and second s

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The set two-inshes grass and Sciences(1), 4'shiplipure-insteamentspices are set officient with 16 g, at a difficult spin-structure statistics of a lowers. The resolution bighture was their variant distillate, The statistic bighture was their variant distillate, The statistic distillate by extraction with adjustment. The atlosefrom attivant was used into adjustment. The atlosepresented sources and statillate, The pointst was distibled was not their act of ships.

Generatively hyperselection with was plated by full p. of Neuralinoitylpiporatory and the predictions were described to handline advantit, the notation are shilled on fibbres, here outly are added to the fibtures is advantate of all of the first ways had been emwished to the hyperbalacture. Are using preprint times these first brindly, by the final that the shilling prior was mark a single \$0.

The disployed brids was deled for 3 hours at 150° 5, and everyight in a developing helice balan

weight out for analysis. The suplex new time disk disk for 26 hence at 140° C, and reveright. Such supple has less show superiodized of 26 weight. Analysis of these compounds, without further drying, indiverse show that of allowing. The theoretical percentage of allowing in 30 miles.

Structural Permis



Replatesh Forwalk	C _a ll _a all _a	
Nolocular Velgith	141,100	
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14. H.W'-dd-m-butylpiperasiss dikydrokronide

Has not seven-bracks grans of pipermain heatspipels as refrand for one Haw will be us of neutrph breaks. The excess bounds and webwy we distilized off. How the temperature results like 0, the results off. How the insurance results like 0.

The residual orystables mass was distinct in hot standard, while crystale appeared upon coaling. The product one recrystabled three additional time, denied for 56 hours at 210⁴ to 200⁴ G., and molysed,



Descriptions of particle invariants and the field of the second set of any set of a solution to induced a left of of physicals benchmarks, and be as, of seture, the remains address was mainteed with address the shares a solution was referred this address physical and the same set that shares a solution of the same set of the same seture theory assumption.

The residual liquid new pieces (m to s distillation first ant the presence of the system was reduced, the temperature of the sil built was buildy radius, dynamic approved in the semission work of the sil work radius (1)² A. The styration are resource from the residual (2)² A. The styration are removed from the residual (2)² A. The styration are removed from the single red the distillation resource, the distillation resource from the distillation resource.

Oab 5.8'-diiscontricipersaise. Hautheners, Charles, Softwareners, Sustates) Preside Solling Poist 567-69" C, at 4 mm. 33.8 2. Astual Kield Percentum of Stirrung, Theory 36-14 Solumblaty in Sever Anishibility in Alashab Astubility in Hour 1-2-014

18. F.N'edi-turebutylpiper maine.

A minimum of 0.7 g, of pipermine hexapirate and 13 ee, of hereinigh brende was refined for any here. The remains was then frastionation,

At 150° C, aryotick appende in the andimany, or the distillation was discontinued. The reaches in the distillation was discontinued, the president bidding primers 151° and 100° C. The arithm mare manthen and resonantion two theory fram behavior the based processive was likes searched out using shouldness through

The product was drain over major as 130° C, of was slipeed to status for some cancel as 130° C, of an adapted as the free hows and not as the appendent hybrid-radius, in status as the sliphy proper ambident printing, in status case if the sliphy proper ambident previous, but this case if the sliphy proper ambident previous status the link cases penalisity is the sliphyre miss.

con the contract of the Heitige Point err. Theory of St. Theoretical Hald 5.8 p. Astual Mode Percentage of Strenger, Damary 14-14 Difactl or silonel Belshility is sleekel beliebility is liber

(20) F.S'-dister-butylotperatus.

17. E.E. dismonphipermann.

Temply-area to, of nonph breaks and related for 5 bears with a solution motioning life g, of piperseles templetale and 35 g, if solits surposets, as moematicales of the reflexing the di-motibilited physicalia the surposets with state,

The eliseral solution was dried by mome of exprises pointing surfaces, and varues distilled. The probest decouvered if distilled an atomphotic powerer, after further drying, the liquid was reliatilled and surfaces.

Instrinal Persils Saulla da Malemiler Reighs \$15,55 100"-162" C. at 6 Inibles Feinh Theoretizel 21+14 \$5.8 p. Asteal Tield а. Personage Tisld. Jorosphare of Hilburg, Divity Personalage of Hitrogen, Frond Made depointing in Alashol Scientility in Story

10. N.F'edilaranylphysraeine disputchmentes,

Eine and governationhise groups of piperselaes up classified in th es. of water and sized with a solution containing th gs of column automates. Fouriests ets of intemp2 breaches ups which to the sizebury, which are prefused for 4 howers.

Babilisting of the probations and absorption of the despitetic presence, with descoppiding respectively. The works are as finalized in shalls a cleaning full strend, and and a strength which will be absorption of the same works that manages are array preliming the three first being the shall be and are proportioned by the three from both strends on the shall be a three first be absorption and absorbs threeses. The probet ware deted for the hours at 140° G herbers if was emagined, it for strends works for the strends prevents.

(1) Fal'-differentine dispurshment.te. Clarge Cartles Cartles A-Gardingson, Incideal Persola Caster Spire Solemier Welaha 310"-323" G. (See.) Persentage Tiold Salana) er sherlate alerte Selection in Sales Solumnity in elected delubility in liner. Incolable.

10. 0.8-fiphenplptpermanne.

Protipies grass of basel as disaded in her alrohol and 10 y, of 65 stiplesedimize added through the reflux conteness. The address was selland for 1 here although the results: appared to augable after the first 50 s of admin.



The public public crystals were fiblered, dried, and recrystabled Drin statistic Type Bolage recrystabling free herms, the crystals matted at MingP to MingP. Asses³⁰ reports the soliday paint to be 100° to Min 5. The grams of the h_b-drippergl-diggtrapyratue

and grann we are specificly-independent and distances in the set of specific and specific and grann if colim hydrowatch, distances and set, of acture, was added to the bit absolut aciditas. The lot aciditas are merimizedly sidered wills bit g, of size power was inderedued in the server of two humars.



0.0

The insparaises of δJ^{\pm} to δJ^{\pm} 0, was maintained for 5 knows, after which the minister one adjusted to cool to recent bespectrue. It was edgewed for an additional 5 herers. Her volume was kept scattering the instance of the addition of shareher decount.

The best of the result of the release of the filtrate remark to approximately % or, Yallowish white tryptils expected on type scaling. These was prefired and detec is a reason dealessing before being endpoing.

The protocol datasets is constrained for single production of the second secon

An ablempt was made to reduce the ful-diplocation pyrains by refinales with fronts cold. Small was identified as one of the same blue controls



ferms grass of 4,5-diphosphylpyresize use dissolved in a minimum combily of 4 mount hydroxidezia adds. The minimum essentially properties to dramote,

The resulting product out receptualised from 6 means hydroclaris ands. It is only display ackade in loss devices sized. The compressibution was duted over high at 140° C, and then placed in a marma description for 4 days before its was manipus,


As alimpt one rule is synthesis d,1-fightypipiperselae by montoming singlemethanine with bessil and similaneously methods in montomatics perform, incomer, the product incluted have an resemilance to 0,7-fightspin piperselae.

Tenty-five grams of vikylanatimales was dilated with shaked and materialized atta manastreeds hydrowlively add. This was added to 600 or, or i anaked availating 40 g, of tenail, diskylfive grams of also and 500 ee, of seamatrated hydrowlines, added during the moves of three hores.



The minimum was hepds of 60° to 60° to the fibaries during mildel is not accountentially withred, first values was help constant by the addition of set even alambel, at the end of d have the helt exhibits new filtered and then reduced to a writes of appreciately for m. Our institut eq. of white yes adout not he can excite benefit as equation by filtration. The volume was reduced to 100 or, and to exp of alamai todad. Bills typhement eryshile sponred spon exiles. The arpetine wave petified, dried ever sight of 210⁶ Gr₁ and planet is a warms dealensity for a weigh.

The eleventure of the above ecopound could get be (effectedly extendiated by the evelytic, if the extend) proops were out reduced, he simulates would be as follows

This elevature, (1), was pressed to be Laserceek by repeating the experiment enting benautic thatcast of benefit.



600



A solutions of (A) and (3) soluted at CO4.0" to NG0.0" G., the once imperature of which (A) makes

7.8



Le Nov H-munocarbathony pipersains dorivolives have been prepared by a nethed which insinder metidiaentions of that need by decoul " and by Roore, Anale, and there,

- 8. Not 2.2 electricity corporate here been spatialstant and make properties studied, in order that they may be more resulty payasted, from the corpospecting Respectivespipersates completes.
- Ber F-mennikyl compounts of pipersails how been made by the new of necessrbohlenzy/persails at an intermediate.
- 4. New N.N'-diskly1 dorivatives of pipereales have been made and their constants detromized,
- The spakkests of S,S-diphenyiptperatize has been eccomplished,
- F, F'-tisl),0-diphenyl_0-aptrospectrylletephenediumine dispresellentic has been ands and its streatury avera.

1. Proposed and Parrolat, Enveloal destructs, 25, 9760 2. Solutith and Finhman, Ber, 24, 2027 (1013) t, Formers and Perrolat, Bull, see, skin, 40 (4), 1370 4, Frank) Fabres 950,407 8. Errmack and Smithh, J. Cons. Sec., 2000, 1884 F. Lormonic and Smith, J. Conv. Jer., 2522, 5085 T. Menawaran, Bull, and, abis, 81, 705 (1998) 8, Godshek and Messawerse, Googl.rent., 284, 450 (1938) 8. Preist and Stiss. Collection of Encodemicros Chemical Committabling, 5, 407 (1833) 10, fullard and Fonderall, J. As. Chev. Sta. 50, 5320 Ma Fallard and Melana, J. As. (Des. Sec., 50, 162 (1924) 18, Sears, Cephs and Thorn, J. Dama, Son., 2002. (1) 60 23, Michiar's, Gryonic Consistery, (transisted by D'Alba) 18. Froley and "logan, Callestina of Construit Chemical 29. Jacobi, Ser. 56, 125 (1988) 29, Restalater, J. Comp. Son., 79 (1) 597 (1994)

17, Ten Dery, her, troy, chim., 30, 65 38, D.S.F.d.C. 1677. Intmidt and Distance. Day, 55, 38 18. Laboratory, Ser. 50, 2002 (1891) RT, Reavy, Rev. 27, 1007 (1204) 31. Actuan, Jubresberjakte aber die Perteakritte den Gamis, 1852, 540 Mt. Ferses and Follard, J. Mt. Chem. Ton., 87, Outer 80. Hants, Ser. 20, 546 (1817) 24, Bernikett and Sufferrugh, Tegisficols of Organia 10, Inkens, Ind. Sog. Ches. 32, 000 (1983) 27. Pacter, d. An. Ches. 714., 54, 602 (1892) 19, Mailan, Sohl, mor. obim. 20, 502 (2018) 33, diark, Wes Interministion of Mpirogen Long (Billing 18, J. As. Chem. Soc., 27, 1st page, Say Lewis, (1818)

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Allen C. Cels was been January S, 1808 ab intworking, it, Feal, blockeds and graduated with the feares of Sambalar of Sulance in 1890. He has Florida from 1981 to 1980 and reprived the degree of Master of Dilaton in 2022. In was a products sealstant is the Chomistry Department of the Unigerelly of Ficrida from 1921 by 2020.

This description was prepared taking its direction of the thermal of the multitude functiony compliance, and has been approved by all makeness of the committee, it was exhautted to the traducto formal and was approved as partial fulfilment of the requirements for the takeness of locator of Hallmanips.

Confutured.